

Reading Data from Mailbox

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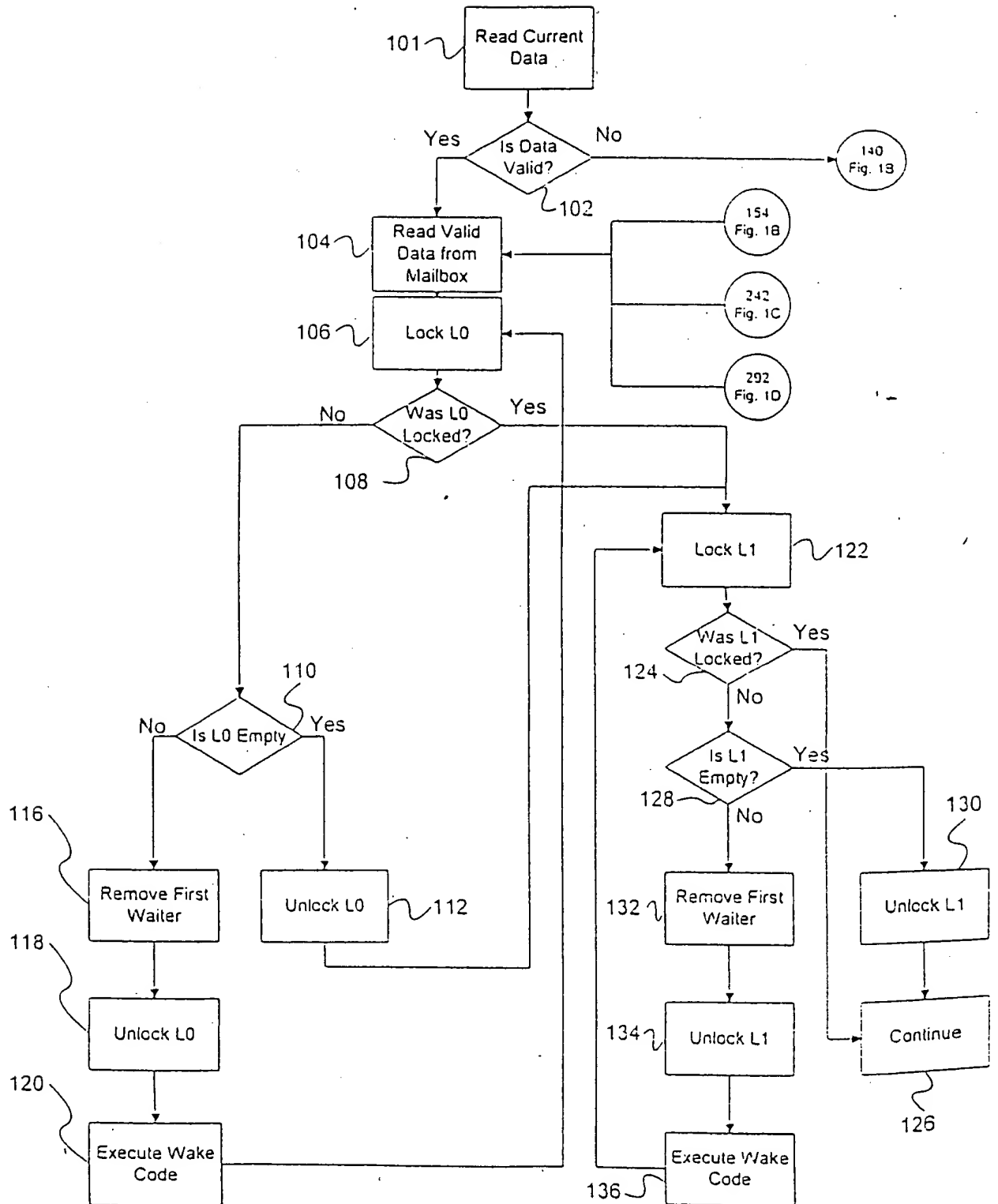


Fig. 1A

Reading
Data from
Mailbox

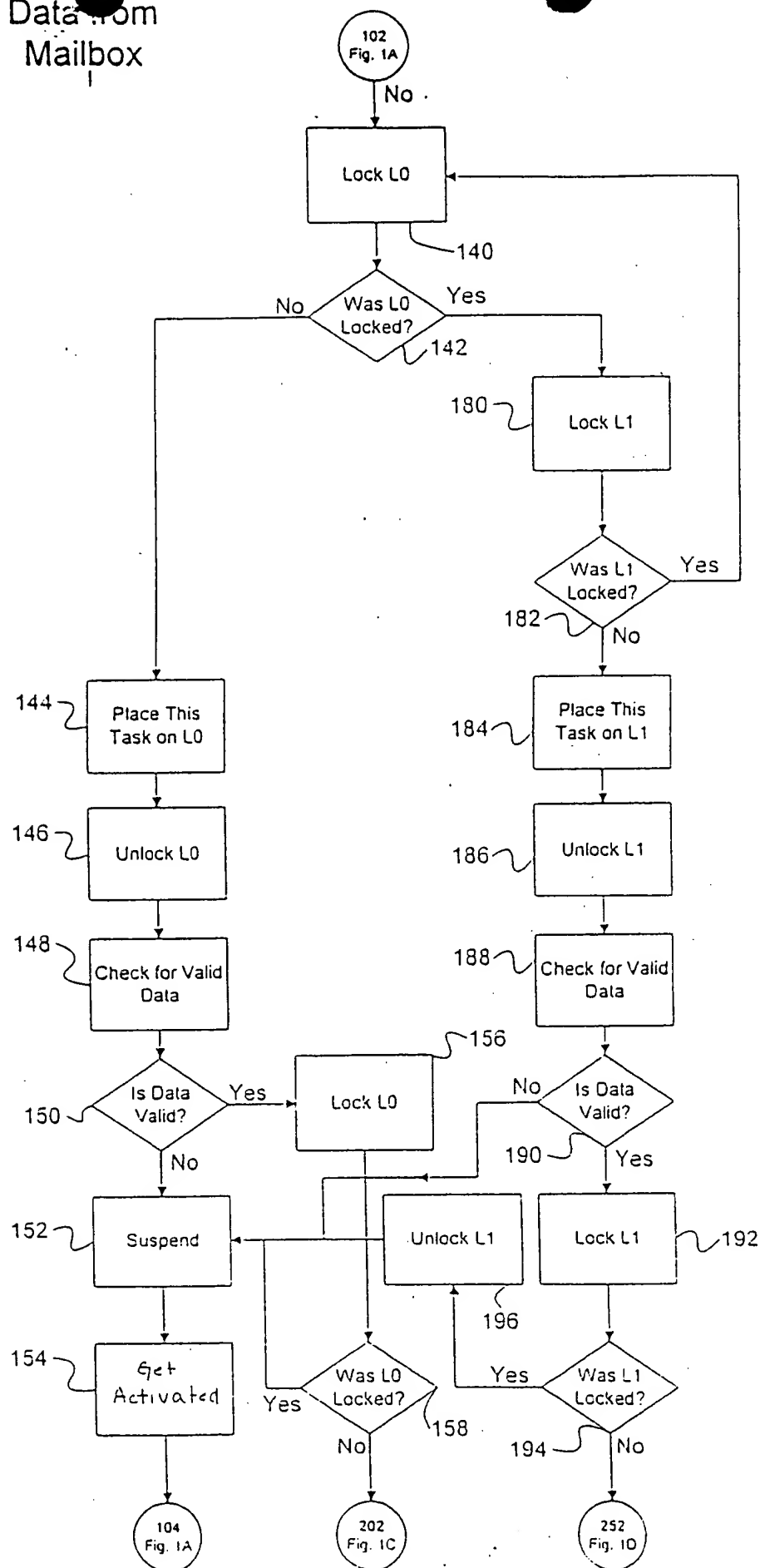


Fig. 1B

Reading Data from Mailbox

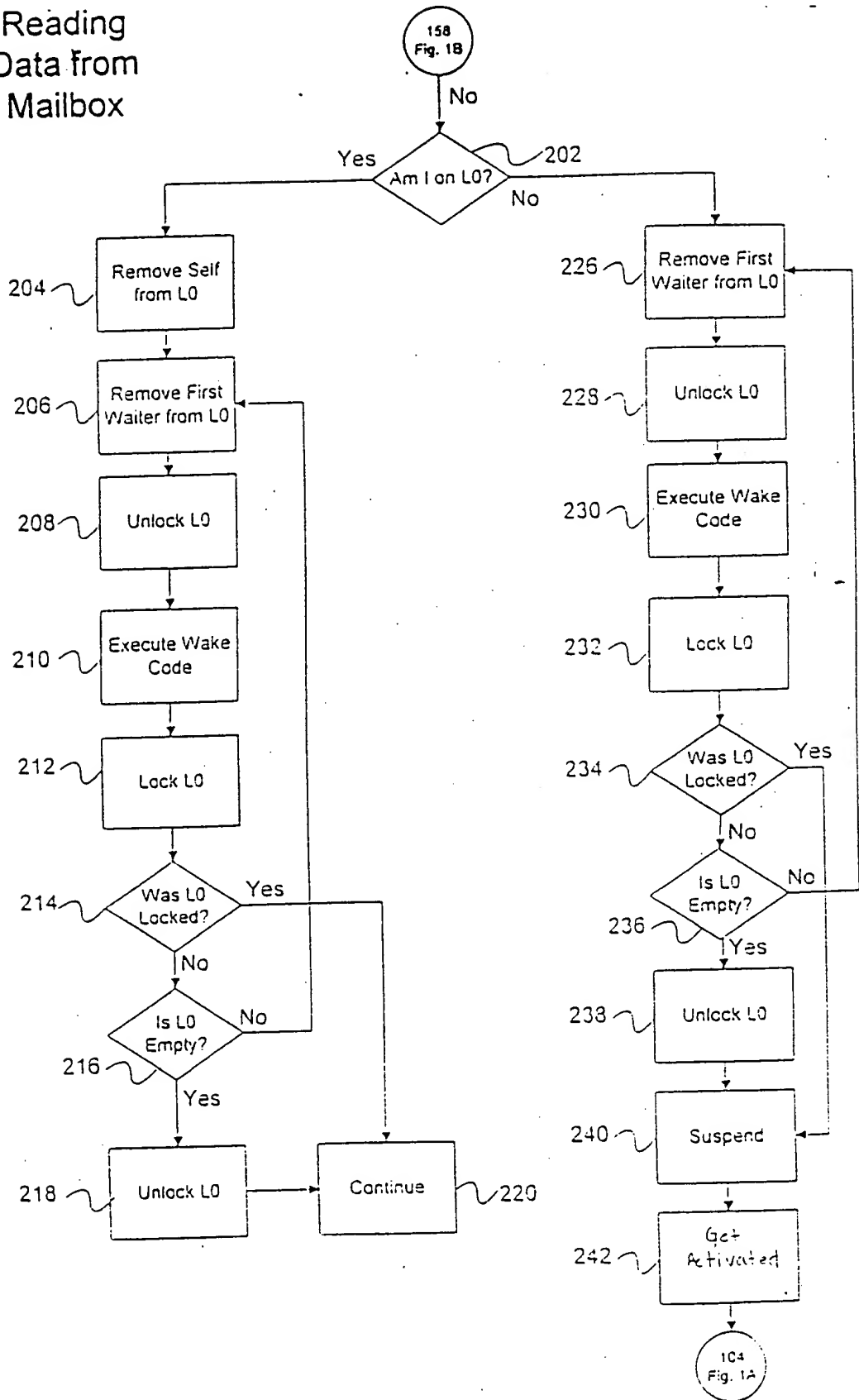


Fig. 1C

Reading Data from Mailbox

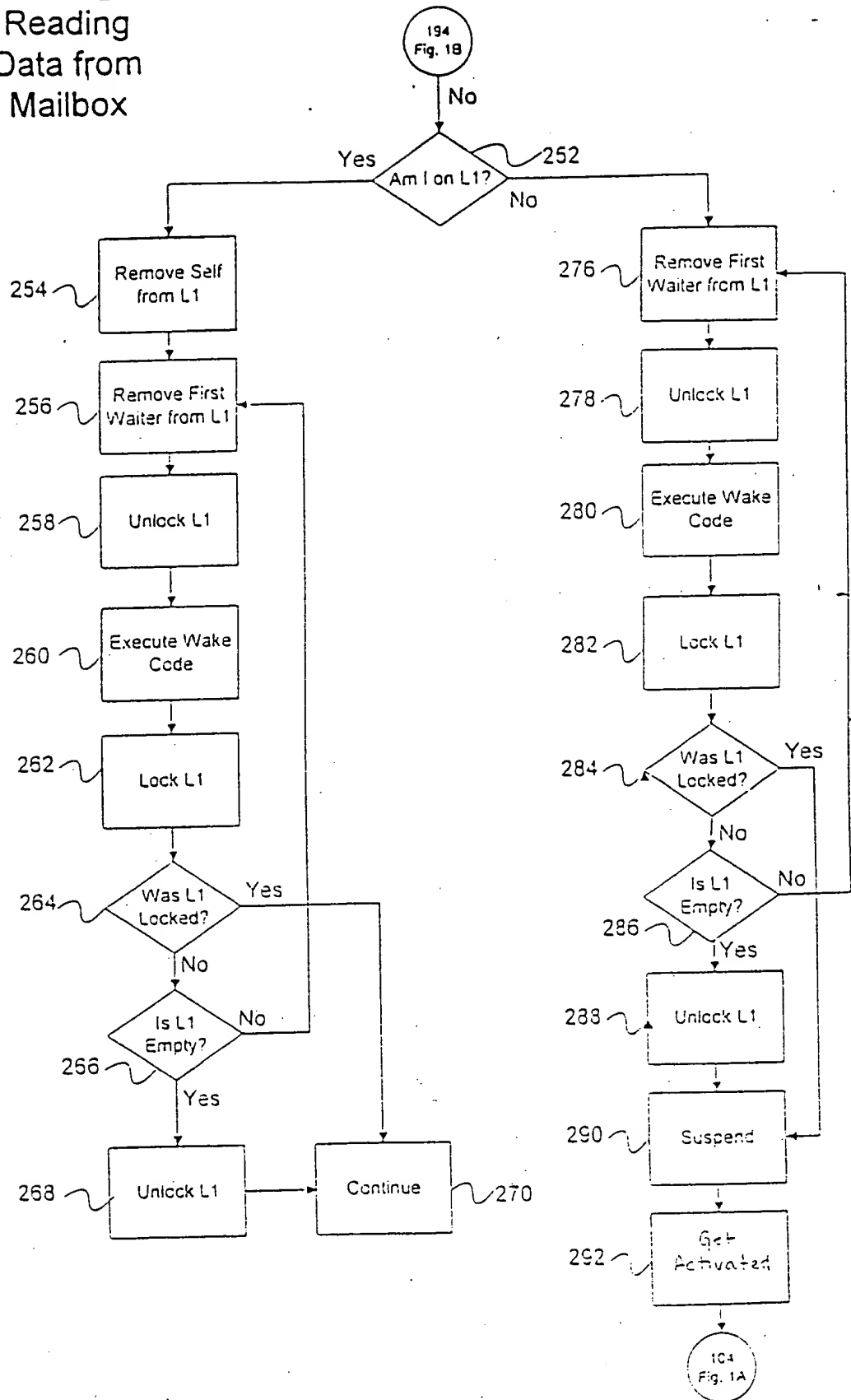


Fig. 1D

Placing Data in Mailbox

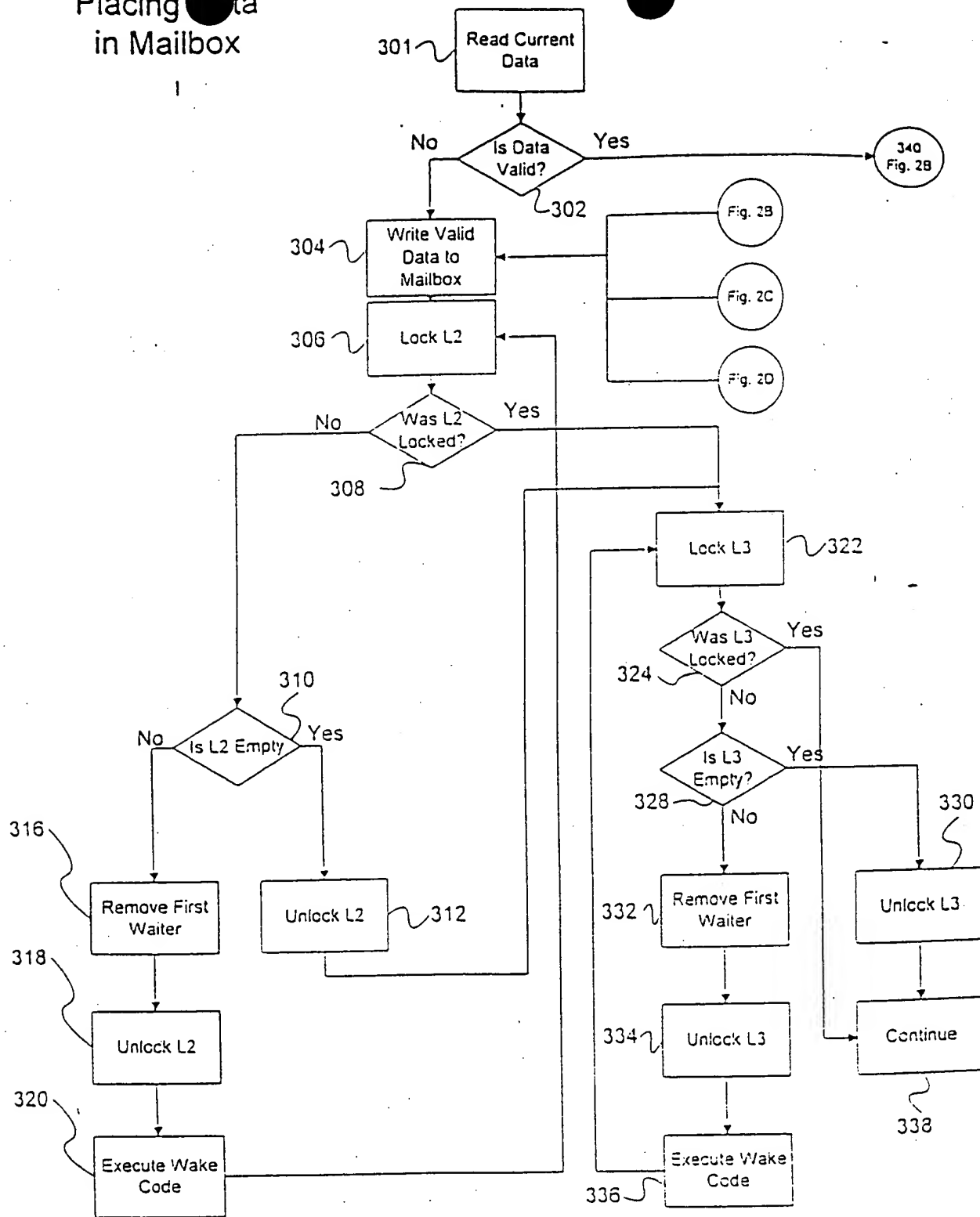


Fig. 2A

Placing Data in Mailbox

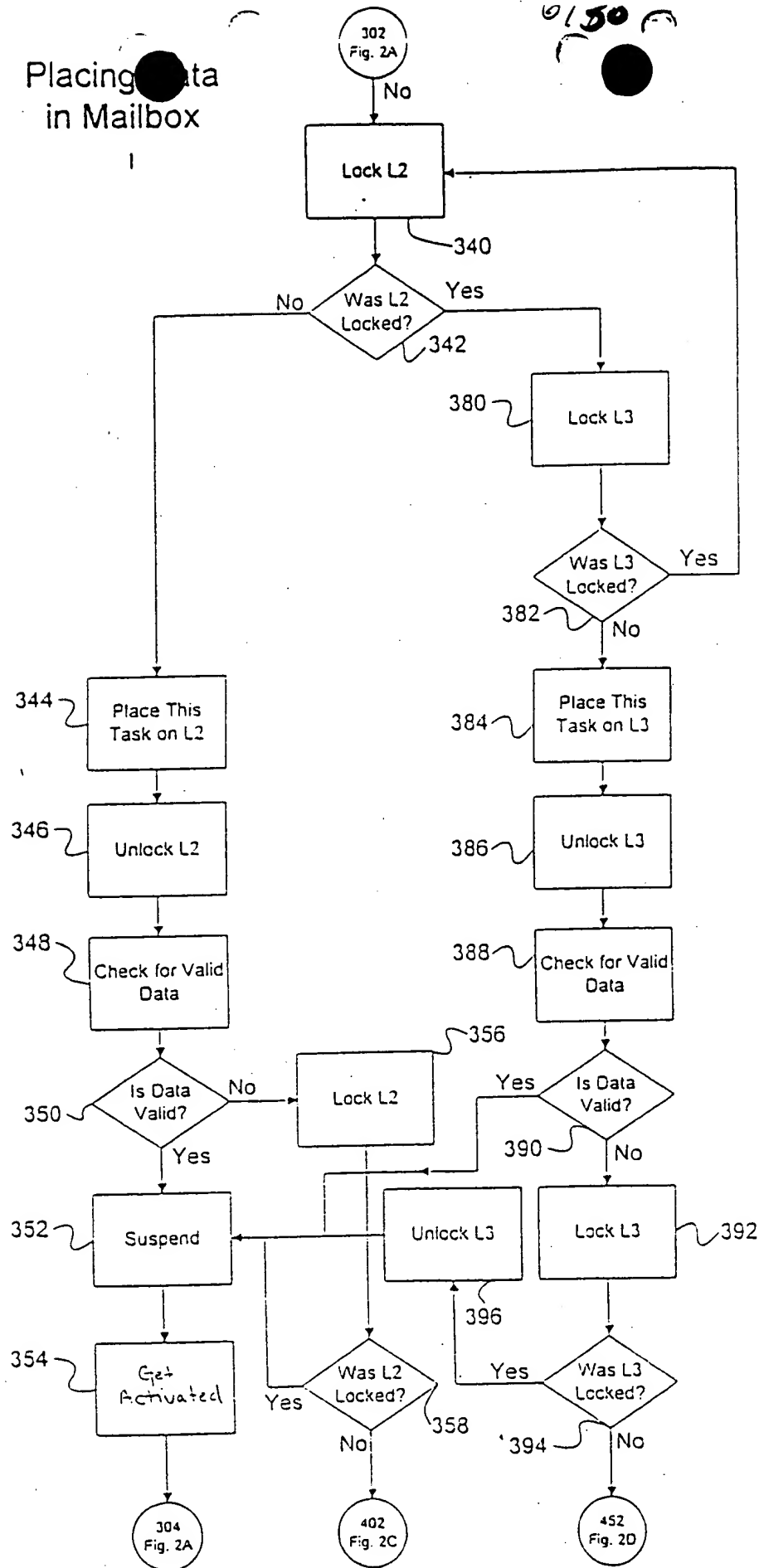


Fig. 2B

Placing Data
in Mailbox

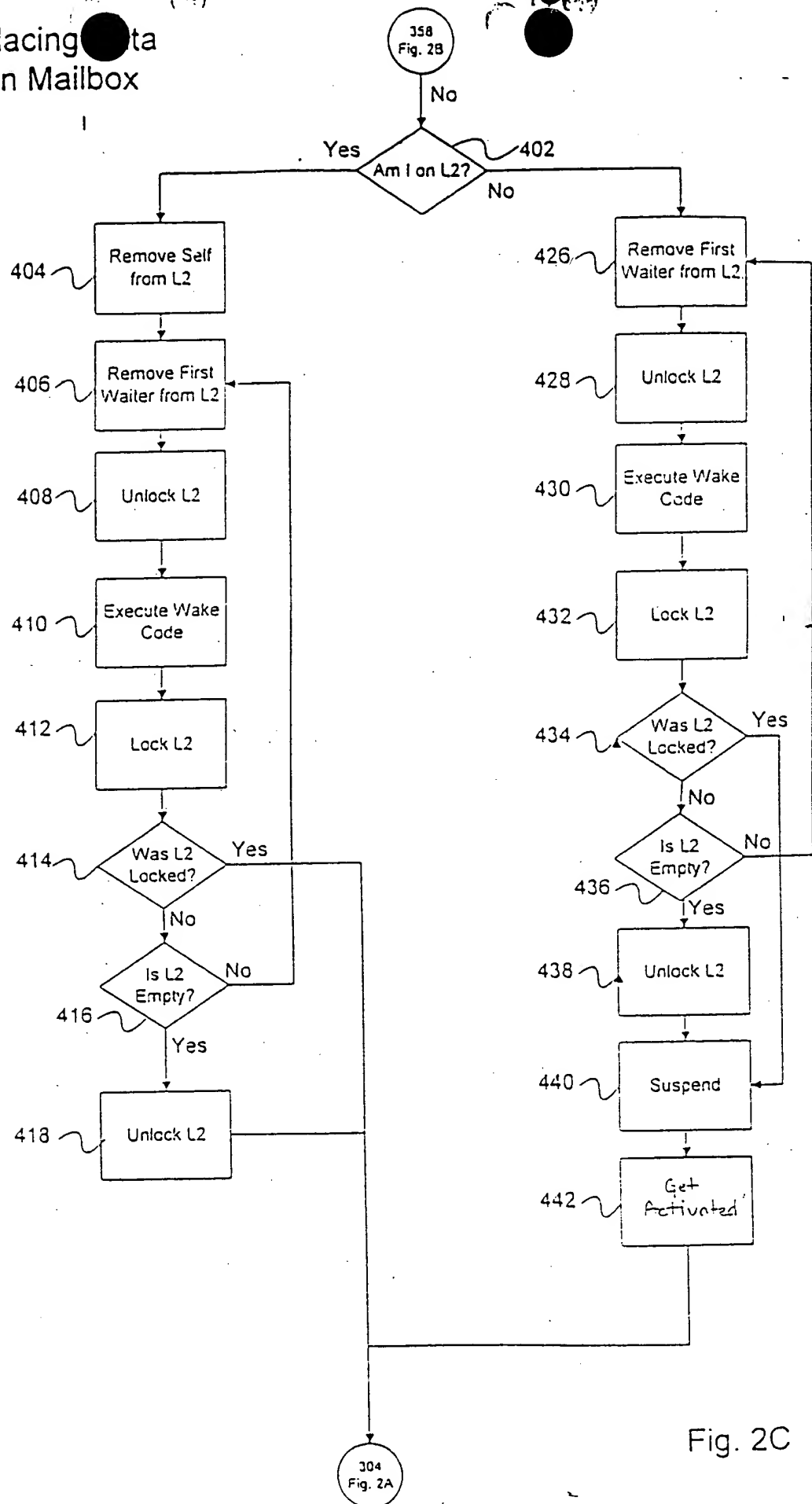


Fig. 2C

Placing a
in Mailbox

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Fig. 2B

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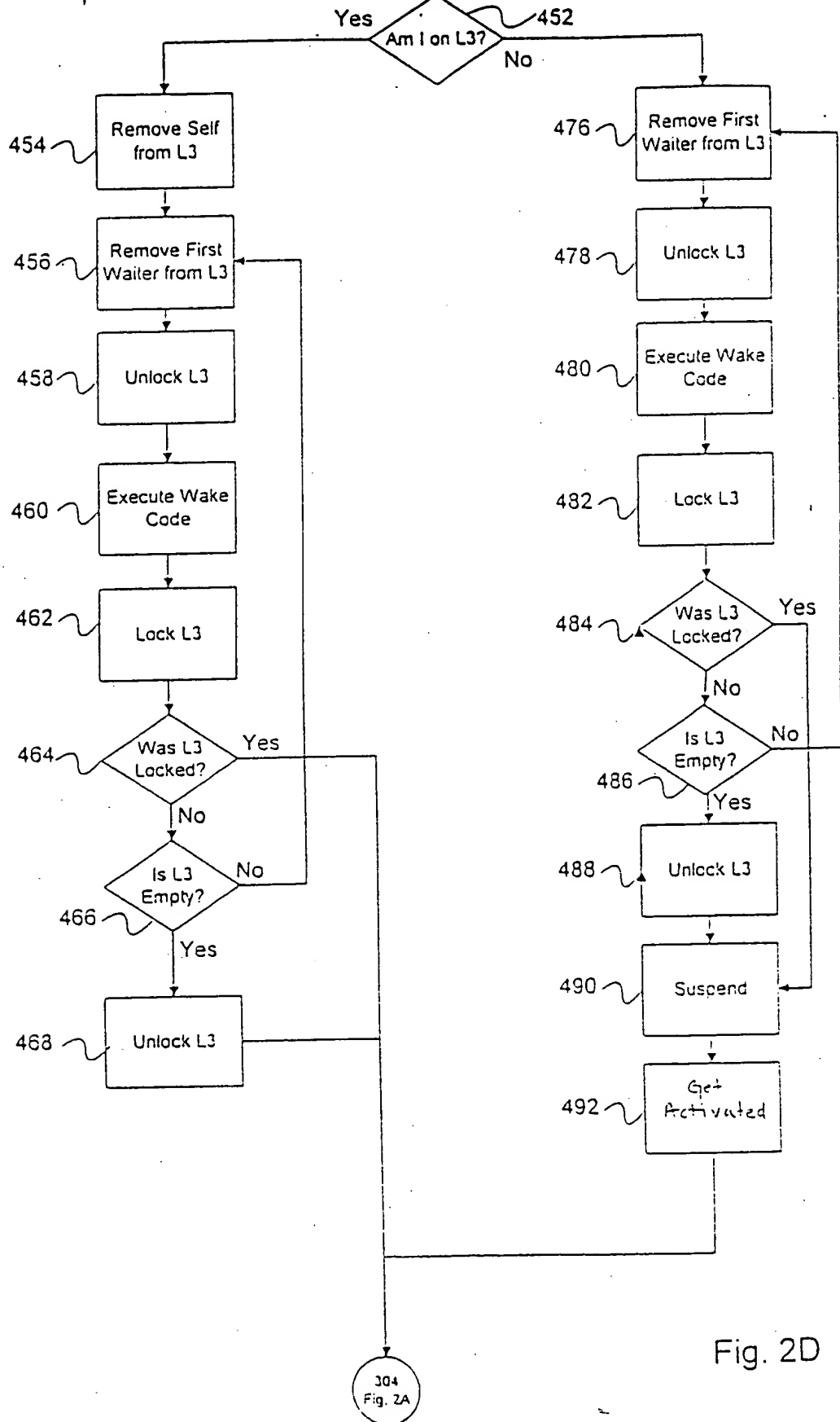
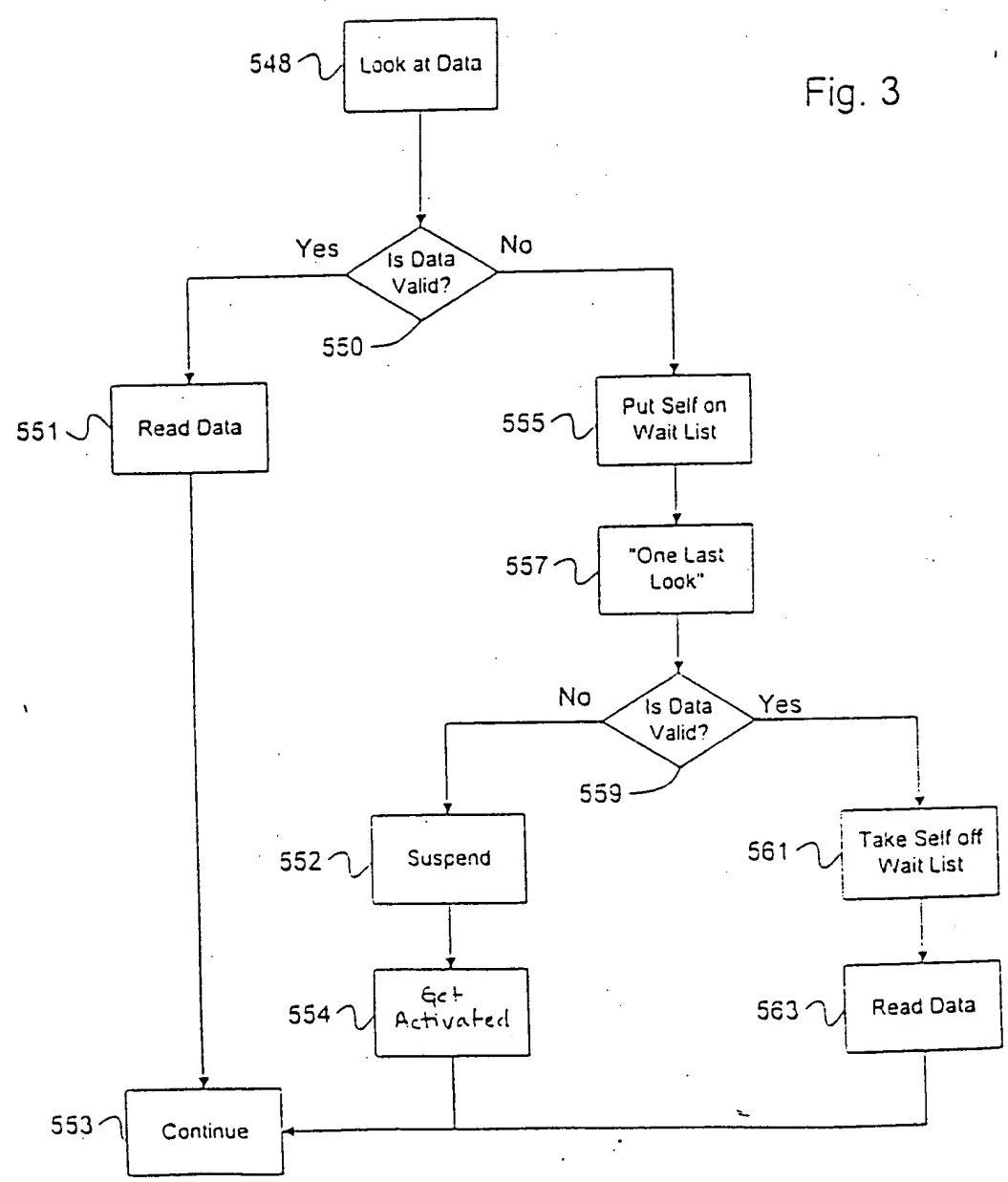


Fig. 2D

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Fig. 3



Continuation 1
NOT WRITE

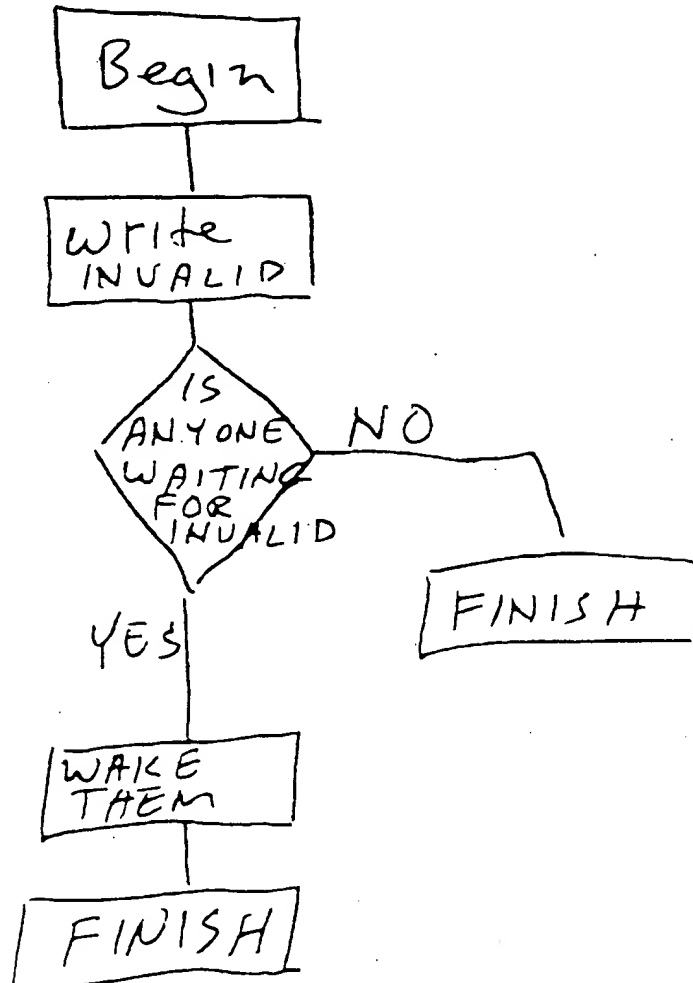


FIG 4

[illegible]

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Continuation 2, 3

Possible Memory Organization

Row Pointer
Column Pointer

CELL

object

Value
Multilist
Code, Ptr
Location Ptr

NEIGHBOR PTR
NEIGHBOR PTR
!
NEIGHBOR PTR
^{EVEN} LIST COUNTER
^{EVEN} LIST
^{ODD} LIST COUNTER
^{ODD} LIST
TICK counter
+2 LIST counter
+3 LIST counter
+2 LIST
+3 LIST

Fig 8

Cont. 2

Cell Behavior

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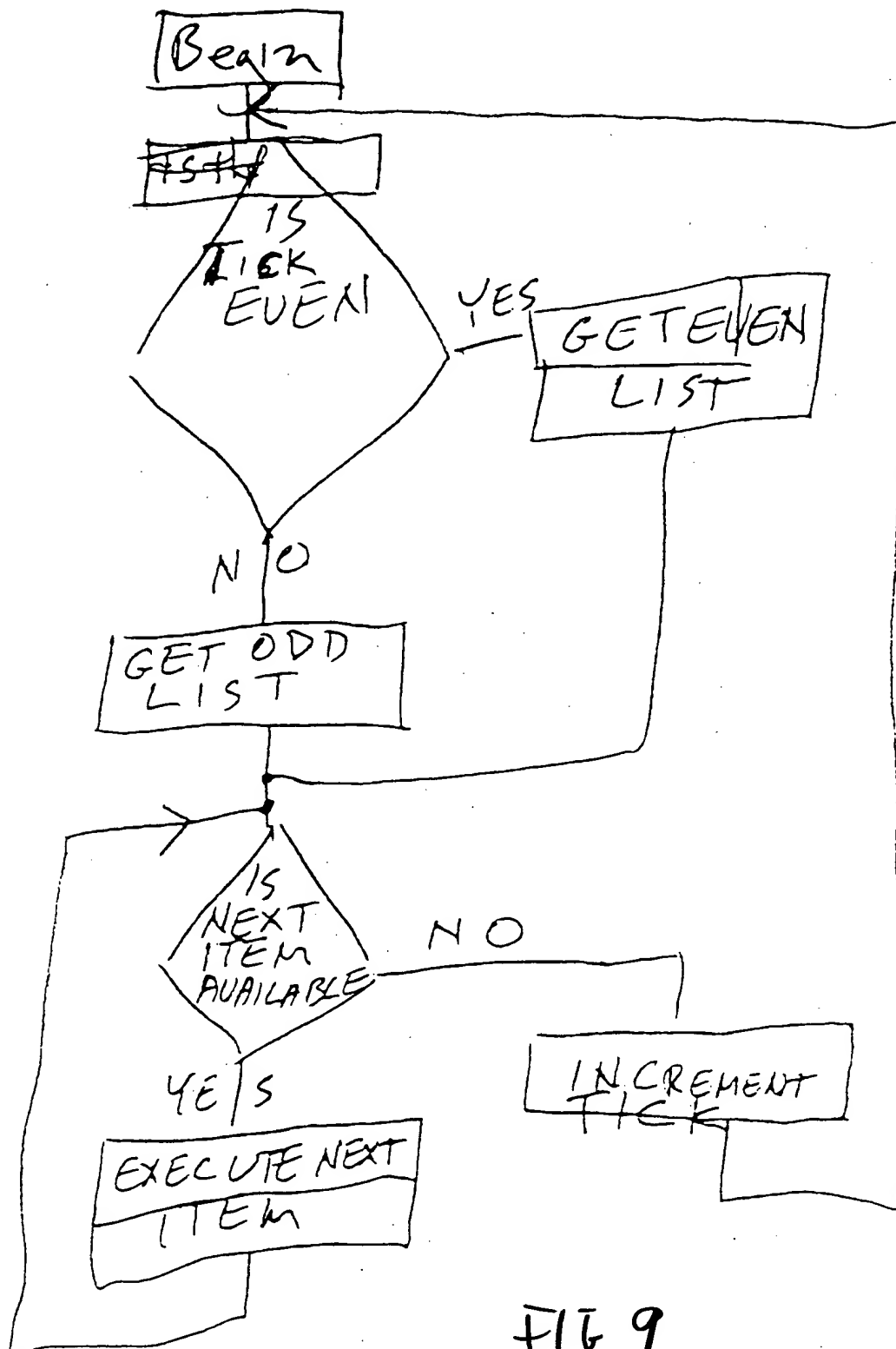
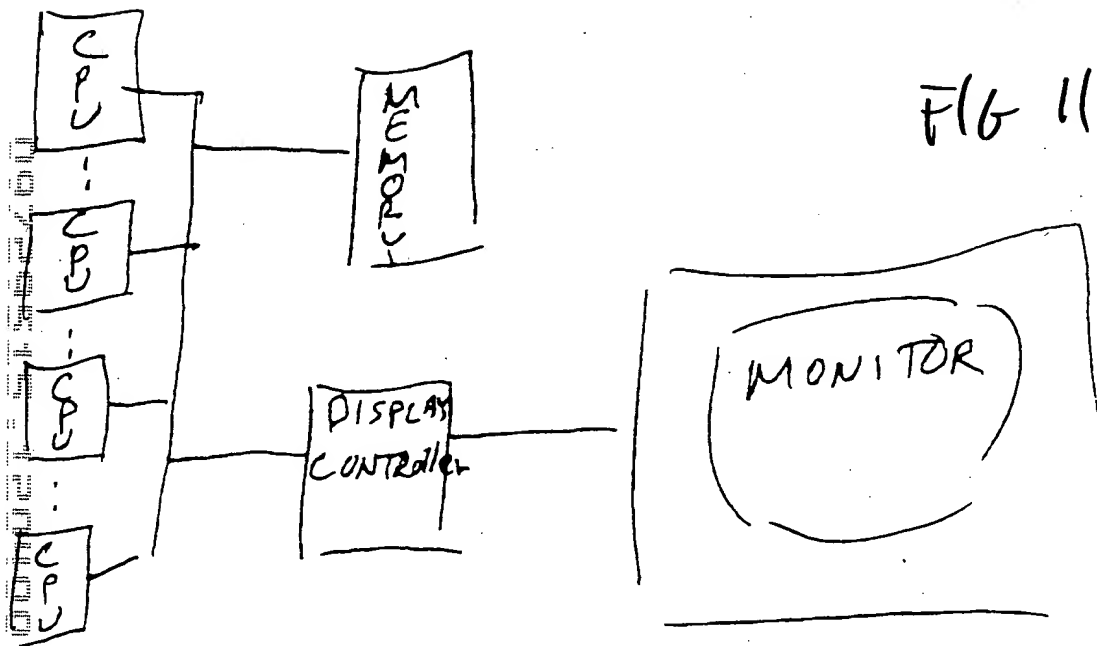


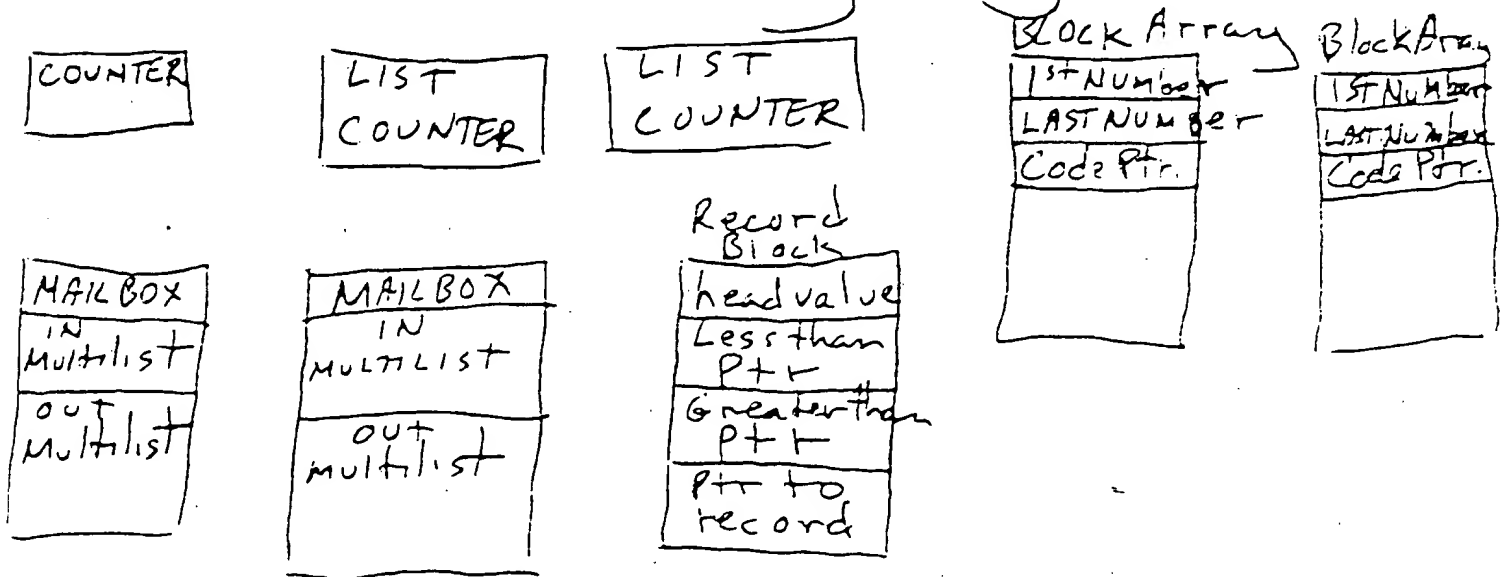
FIG 9

Look Free Record^{17/30} Management

Possible Physical Hardware



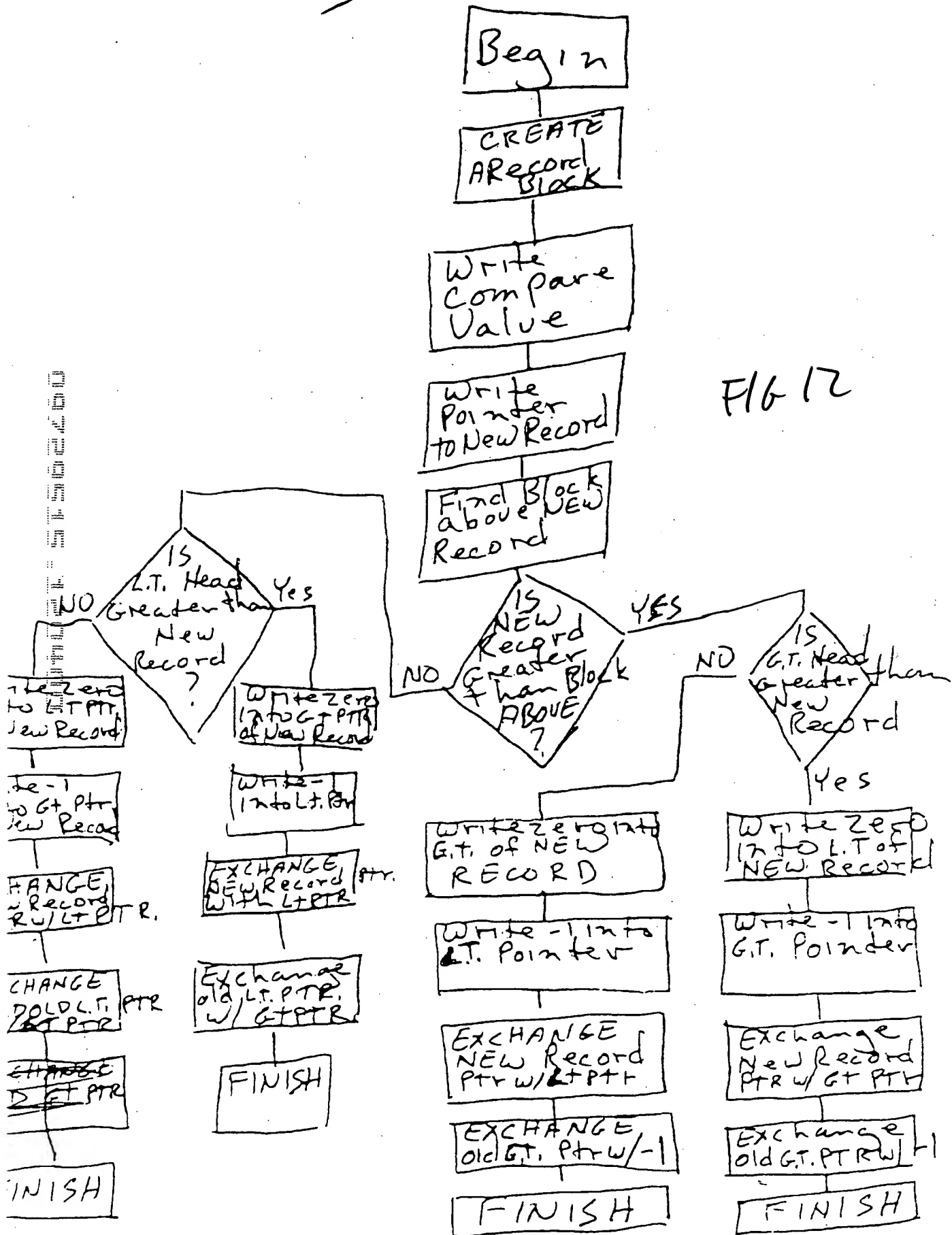
Possible Memory Organization



Writing a Record

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FIG 12



Reading a Record 17/30

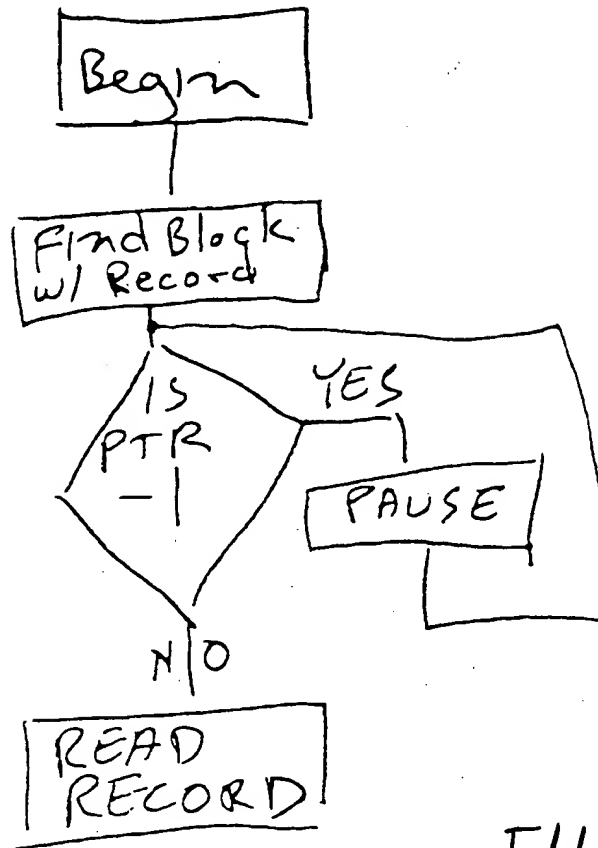


Fig 13

Adding a Value to a Record ^{20/30}

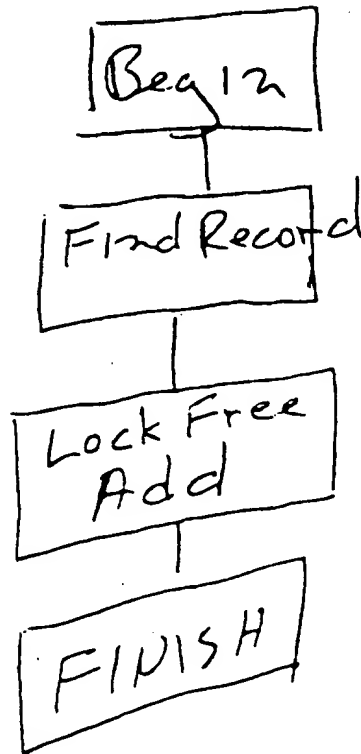


FIG 14

Altering A String ^{21/30}

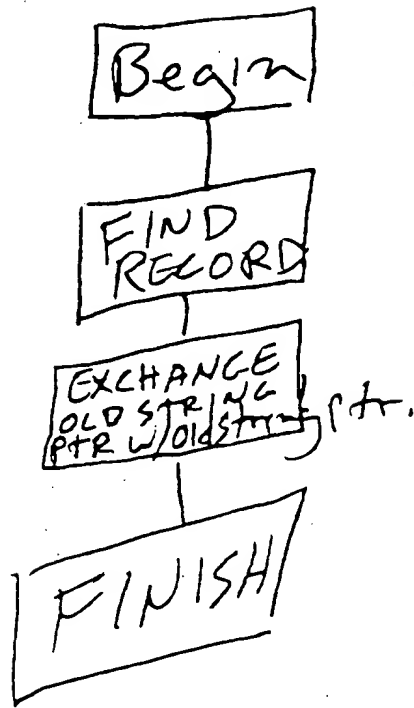


FIG 15

PERFORMING MULTIPLE OPERATIONS

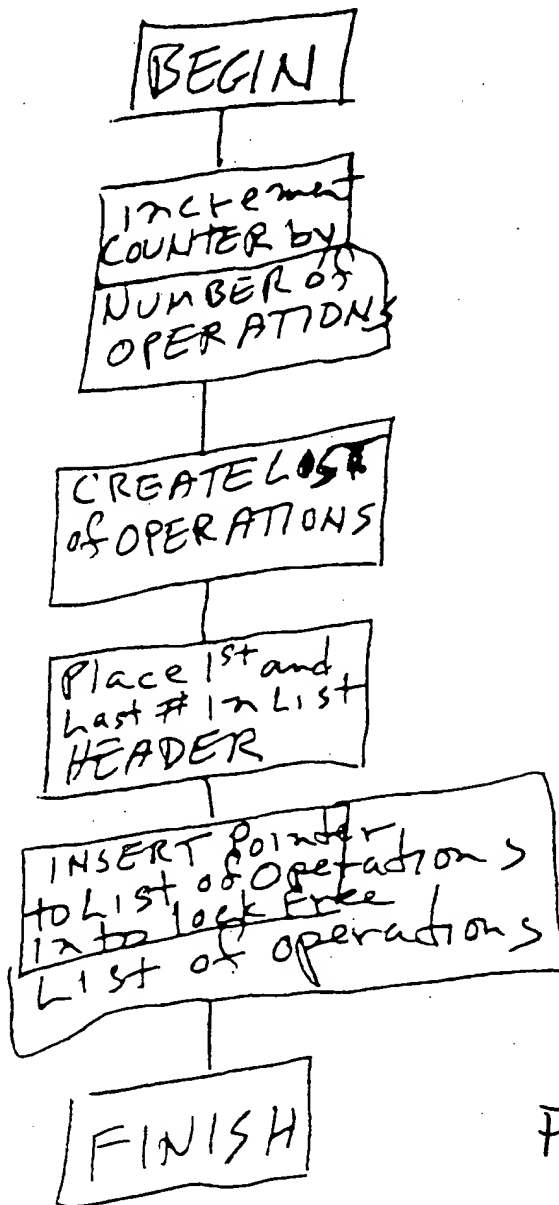
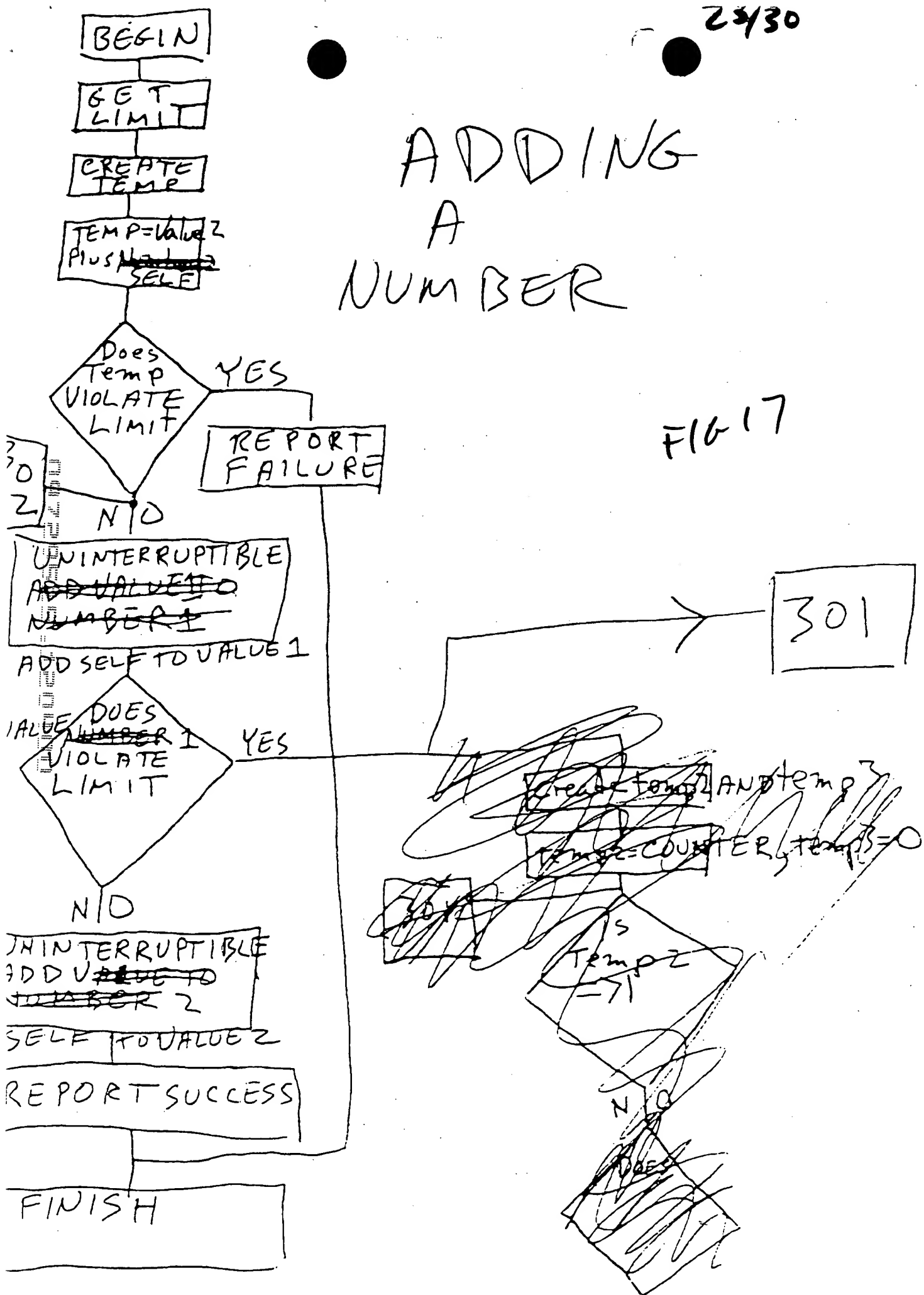


FIG 16

ADDING A NUMBER

FIG 17



PLACE SELF ON LIST
WHERE COUNTER INDICATES

MARK SELF NOT FAILED

SUBTRACT SELF FROM
VALUE 1

PAUSE

CHANGE SELF TO ZERO

~~CHECK TO~~

~~REPORT FAILURE~~

FINISH

MARKED
FAILED

NC

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THE **WORLD'S** **LARGEST** **BOOKSTORE**

FIG 18

Device for Non-Blocking List MANAGEMENT

POSSIBLE HARDWARE

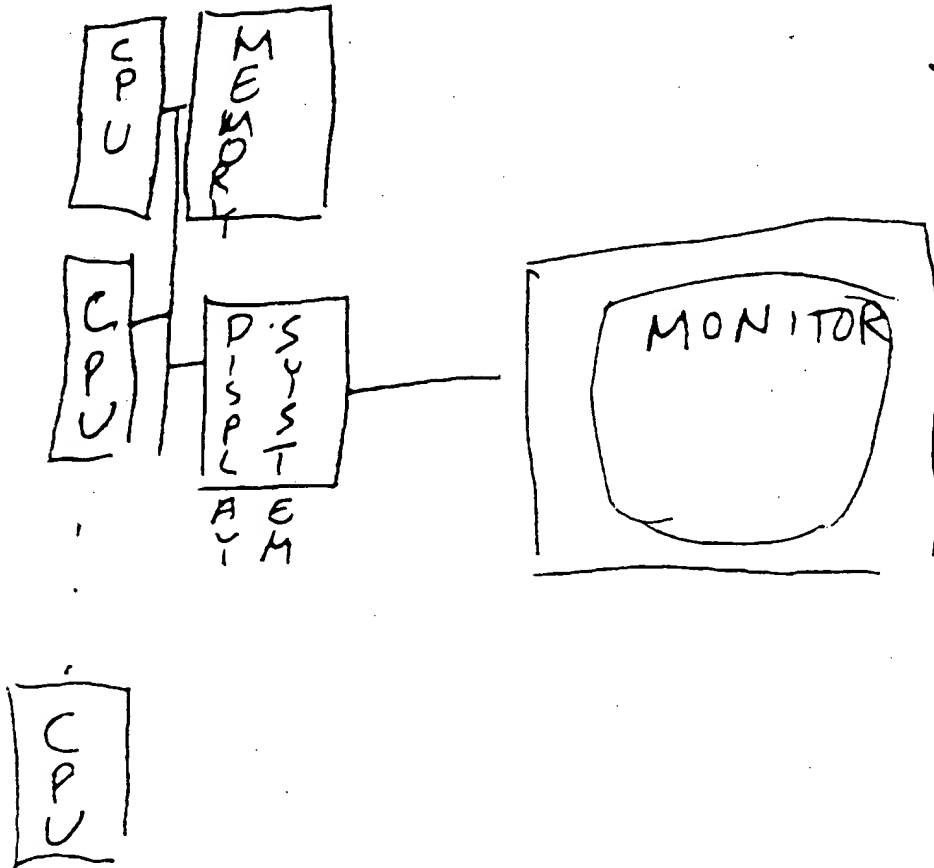


FIG 20

POSSIBLE MEMORY ORGANIZATION

MASTER POINTER				
POINTER 1	COUNTER 1	SEMAPHORE 1	BLOCK 1	POINTER LIST
POINTER 2	COUNTER 2	SEMAPHORE 2	BLOCK 2	
POINTER 3	COUNTER 3	SEMAPHORE 3	BLOCK 3	
POINTER 4	COUNTER 4	SEMAPHORE 4	BLOCK 4	

2/1/30 REMOVE ITEM FROM LIST

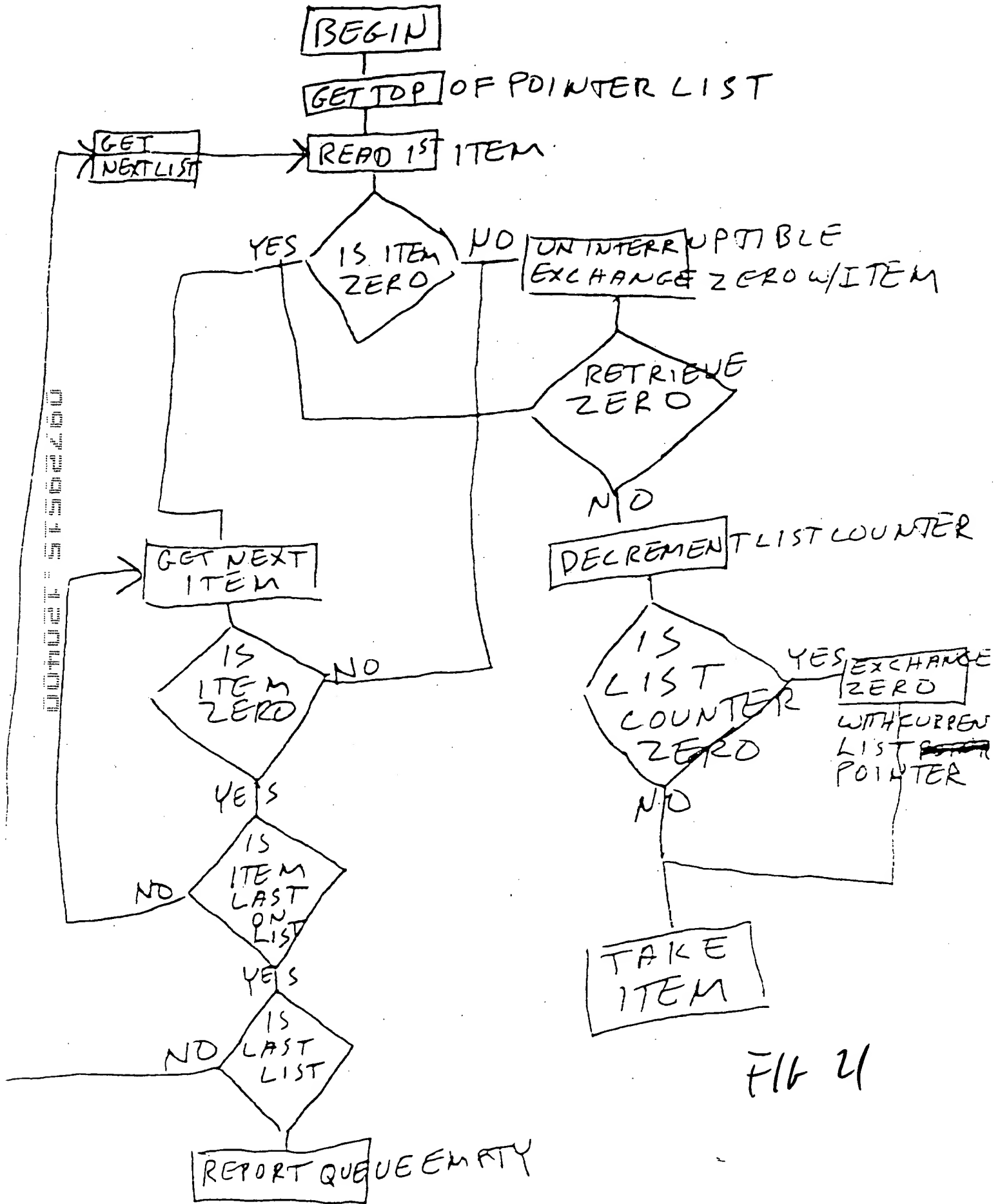


FIG 21

PLACE ITEM ON LIST

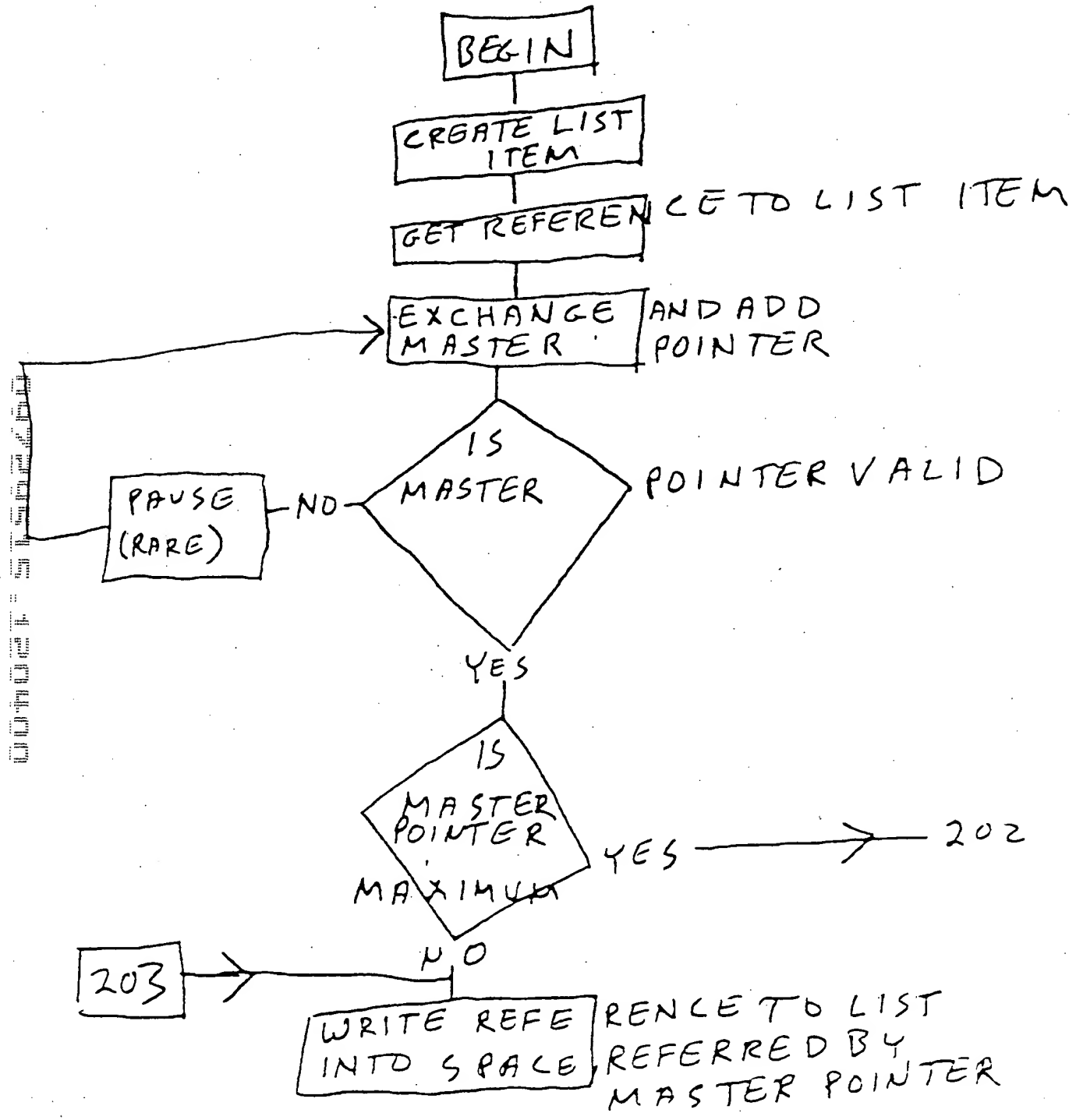
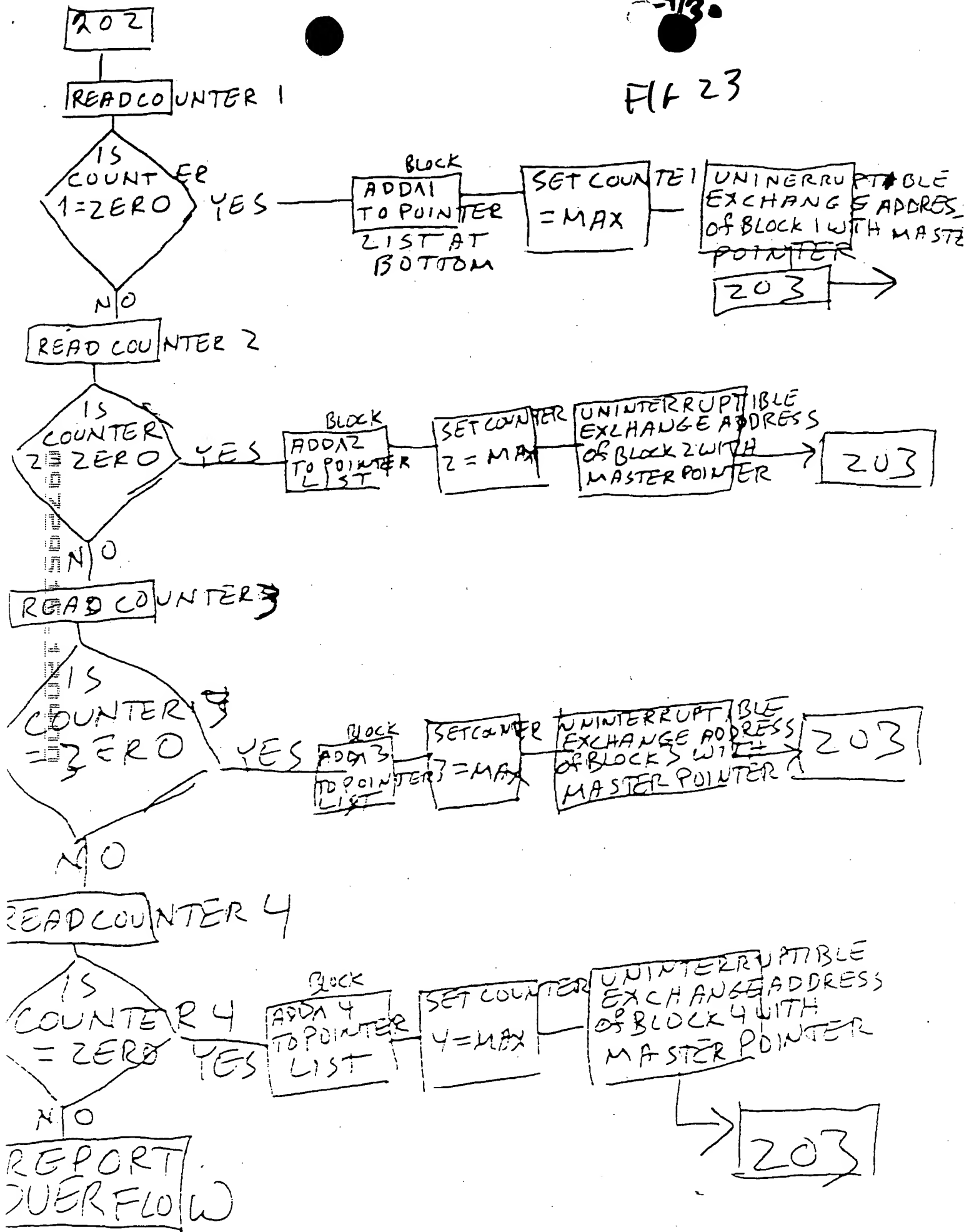


FIG 22

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Flt 23



INITIALIZE LIST

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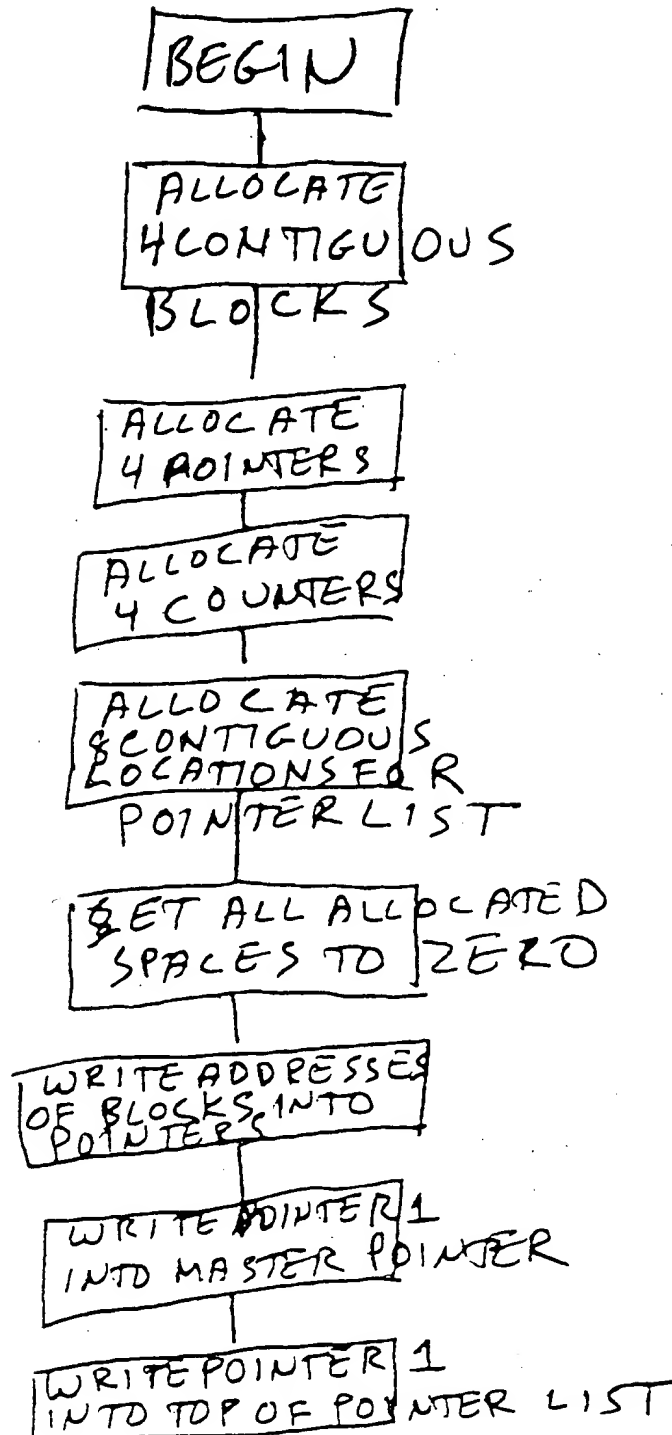


Fig 24

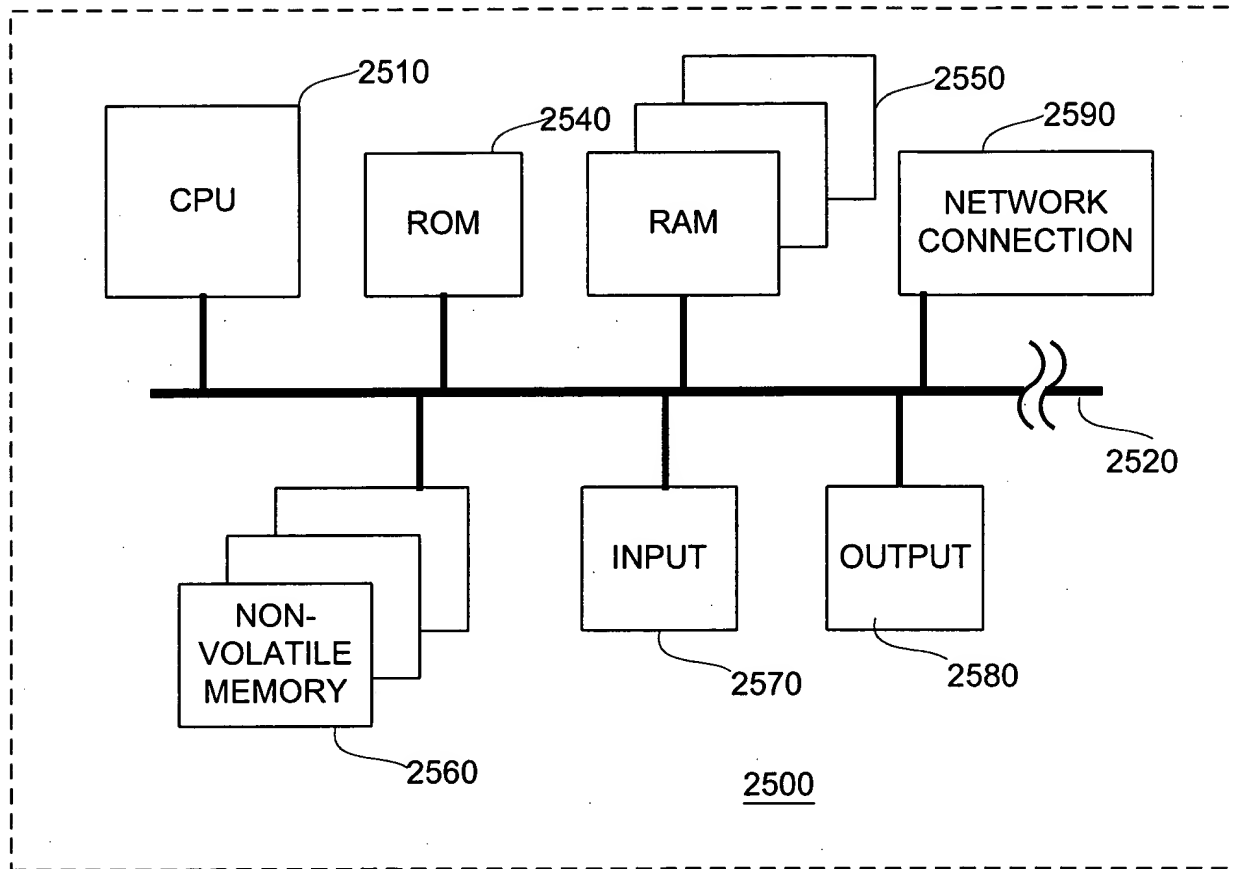


FIG. 25

Prior Art

2025 RELEASE

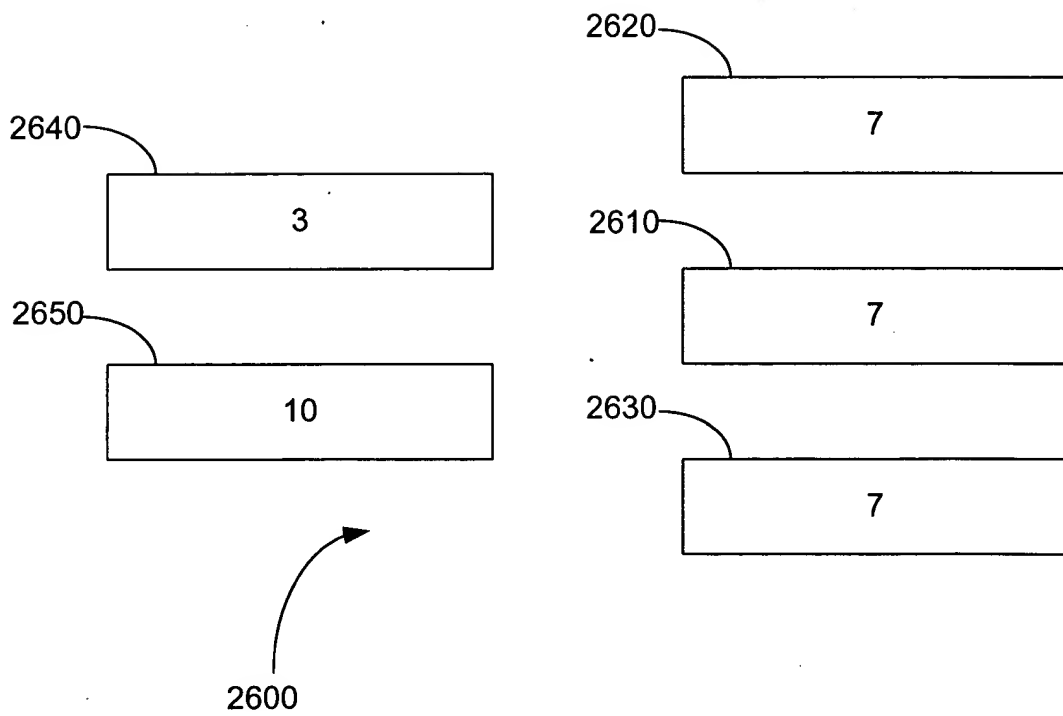


FIG. 26

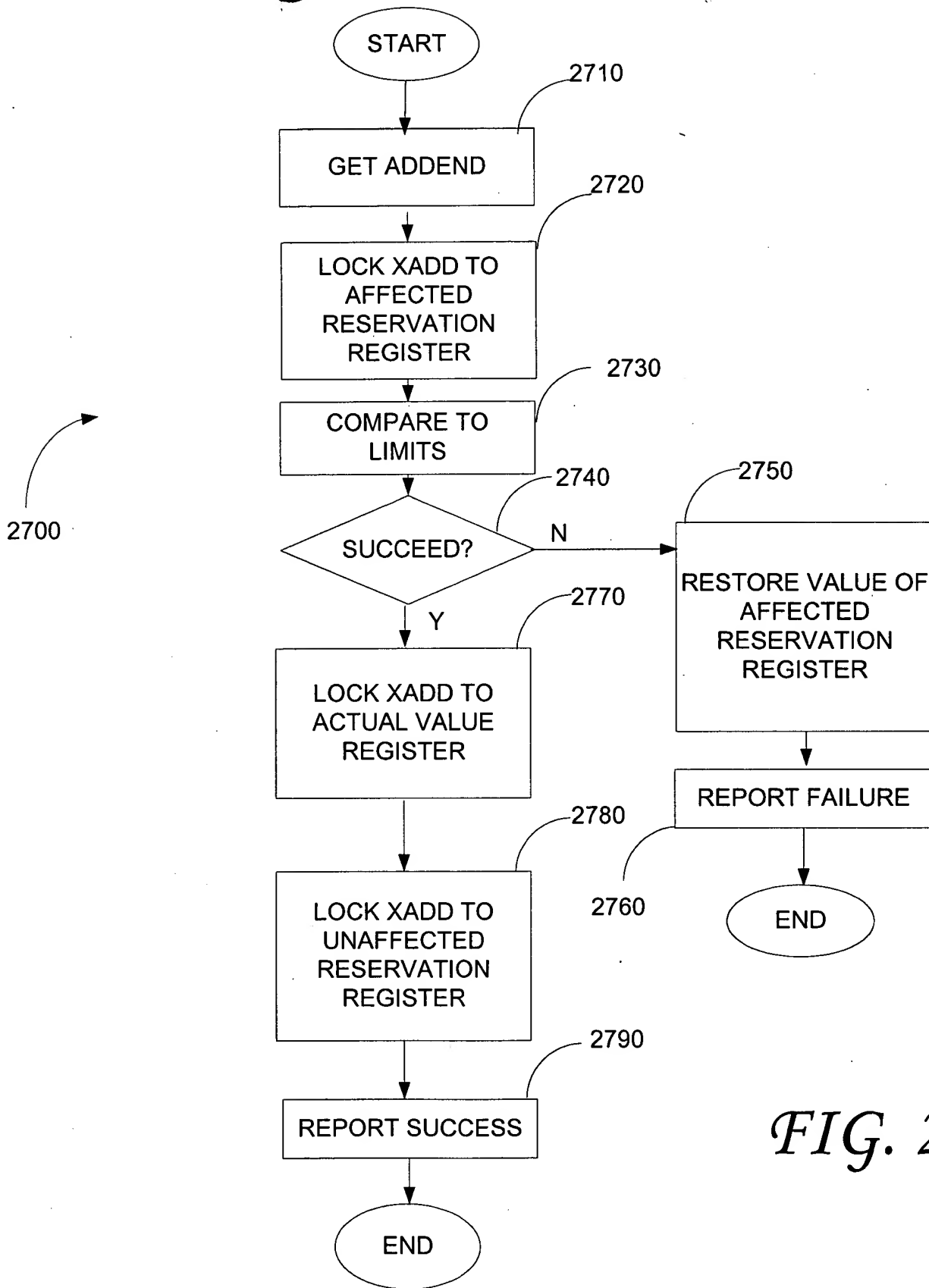


FIG. 27